TrajCluster - Bug #18481

BackTracker not working

12/06/2017 09:27 AM - Tingjun Yang

Status:	Resolved	Start date:	12/06/2017
Priority:	Normal	Due date:	
Assignee:	Tingjun Yang	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour

Description

Bruce reported the following problems:

It's been a few weeks since I checked TrajCluster performance using my standard reference data set. I discovered that none of the recob::Hits were matched to MCParticles. I see that the code in TCTruth has changed a bit. The BackTracker pointer variable name changed from bt to bt_serv and there is a new pointer to the ParticleInventoryService. I find that nothing is returned from bt_serv->HitToSimIDEs_Ps(rhit).

This is in v06_58_00 after the changes to backtracker.

History

#1 - 12/06/2017 09:06 PM - Tingjun Yang

- File mcc8.fcl added

Command to reproduce the problem:

lar -c mcc8.fc

#2 - 12/06/2017 09:54 PM - Tingjun Yang

- Assignee set to Tingjun Yang
- % Done changed from 0 to 100

There are a few issues. Some in backtracker and some in trajcluster. larsim:

- Sometimes backtracker does not get SimChannel from a hit. This is fixed in larsim:a660cff8c6cd4421934ca7eb1c065e9ca06fb02e. Related issue #18483.
- Backtracker did not take into account trigger offset. This is fixed in larsim:4c075018cf2bc6119b9b2dea914a8cfe58906c7d.

Fortunately the above two bug fixes will be incorporated into this week's release.

larreco:

- In TrajClusterAlg.cxx flsRealData was set after it was used. Fixed in larreco:bcf49c321cc980065b3fd3483503938b2e677831.
- In TCTruth.cxx, HitToSimIDEs was changed to HitToTrackIDEs: larreco:5c84f627728f7c34a9eaa20377817c7c7f9f9f94.

#3 - 02/10/2018 07:57 PM - Tingjun Yang

- Status changed from New to Resolved

Files

mcc8.fcl 8.48 KB 12/07/2017 Tingjun Yang

09/23/2020 1/1